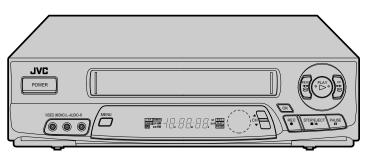


VIDEO CASSETTE RECORDER

HR-A62U











For Customer Use:

Enter below the Serial No. which is located on the rear of cabinet. Retain this information for future reference.

Model No. HR-A62U

Serial No.

PU30425-1763-1





Dear Customer,

Thank you for purchasing the JVC VHS video cassette recorder. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of your new VCR.

CAUTIONS



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION:

This video cassette recorder should be used with AC $120V_{\sim}$, 60Hz only.

To prevent electric shocks and fire hazards, DO NOT use any other power source.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CAUTION:

Changes or modifications not approved by JVC could void user's authority to operate the equipment.

Failure to heed the following precautions may result in damage to the VCR, remote control or video cassette.

1. DO NOT place the VCR . . .

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the VCR's ventilation openings.
- 3. DO NOT place heavy objects on the VCR or remote control.
- 4. <u>DO NOT</u> place anything which might spill on top of the VCR or remote control.
- 5. AVOID violent shocks to the VCR during transport.

**MOISTURE CONDENSATION

Moisture in the air will condense on the VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the VCR's power turned on for a few hours to let the moisture dry.

**ABOUT HEAD CLEANING

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.



- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, only "VHS" recordings can be played back in this model.
- HQ VHS is compatible with existing VHS equipment.







IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

ATTENTION:

Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this booklet for future reference.

INSTALLATION

1. Grounding or Polarization

- (A) Your product may be equipped with a polarized alternatingcurrent line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.
 - If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- (B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature.
 - If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. Power Sources

Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

3. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

4. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

5. Ventilation

Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

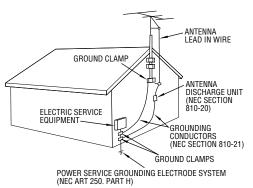
2. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

3. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



NEC - NATIONAL ELECTRICAL CODE









USE

1. Accessories

To avoid personal injury:

- Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and follow the manufacturer's instructions for any mounting of the product.
- Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

2. Product and Cart Combination

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING (Symbol provided by RETAC)



3. Water and Moisture

Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

4. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

5. Attachments

Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

6. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7 Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICING

1. Servicing

If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

2. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b.lf liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d.If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or damaged in any way.
- f. When the product exhibits a distinct change in performance—this indicates a need for service.

3. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

4. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

HOW TO USE THIS INSTRUCTION MANUAL

- All major sections and subsections are listed in the Table Of Contents on page 5. Use this when searching for information on a specific procedure or feature.
- The Index on pages 37–39 lists frequently-used terms, and the number of the first page on which they are used or explained in the manual.
- The IF mark signals a reference to another page for instructions or related information.
- Operation buttons necessary for the various procedures are clearly indicated through the use of illustrations at the beginning of each major section.

BEFORE YOU INSTALL YOUR NEW VCR . . .

- ... please read the sections/literature listed below.
- "Cautions" on page 2
- "Important Products Safety Instructions" on the previous pages







5

CONTENTS

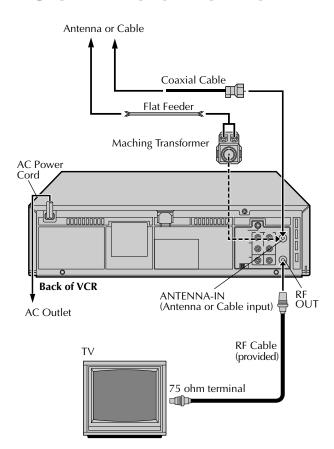
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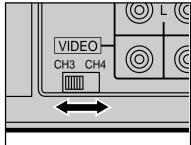




Basic Connections



Back of VCR



CHECK CONTENTS

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (pg. 40).

SITUATE VCR

Place the VCR on a stable, horizontal surface.

CONNECT VCR TO TV

The connection method you use depends on the type of TV you have.

RF Connection

- To Connect To A TV With NO AV Input Terminals . . .
- **a** Disconnect the TV antenna from the TV.
- **b** Connect the TV antenna cable to the ANT IN jack on the rear of the VCR.
- c– Connect the supplied RF cable between the RF OUT jack on the rear of the VCR and the TV's antenna terminal.

AV Connection

- To Connect To A TV With AV Input Terminals . . .
- **a** Connect the antenna, VCR and TV as shown in the illustration.
- b- Connect an Audio/Video Cable (not supplied) between the AUDIO OUT and VIDEO OUT jacks on the rear of the VCR and the AV IN jacks on the TV.

CONNECT VCR TO POWER SOURCE

Connect the power plug to an AC outlet.

• Perform Auto clock setting (pg. 7).

FINAL PREPARATION FOR USE

Select the VCR channel (3 or 4) by setting the switch on the rear of the VCR as shown in the illustration.

Turn on the power to the TV. You are now able to perform simple playback (\square pg. 14) and recording (\square pg. 15).

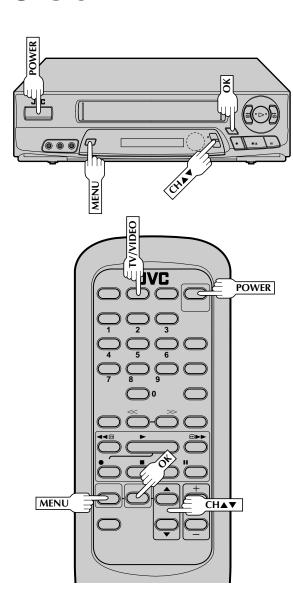
NOTES:

- The VCR channel is the channel on the TV which will display the audio and video signals from the VCR.
- The CH3-CH4 switch is preset to the CH3 position.
 Set to CH4 if CH3 is used for broadcasting in your area.
- If your TV has no AV input terminals, set the channel on the TV to correspond to the CH3–CH4 switch on the back of the VCR
- Even if your TV has AV input terminals, you must connect it to the VCR using an RF cable in order to record one show while watching another (☐ pg. 23).
- For full identification of the VCR's rear panel, refer to the Index (REAR VIEW 🖙 pg. 38).





Clock



ATTENTION CABLE BOX SUBSCRIBERS

If you perform Auto or Semi-Auto clock setting procedures . . .

• Select the PBS channel on your cable box before plugging your cable box into the AC outlet. (If you have more than one PBS channel, you may have to select the PBS channel if Auto clock setting is not successful.)

- The cable box must be set to the PBS channel at clock adjustment times, or the adjustment will not take place.
- If you perform Auto clock setting successfully, D.S.T. will be set to "AUTO". In this case, once the D.S.T. adjustment time comes (pp. 9), your cable box must be set to the PBS channel in your area or the adjustment will not take place. If this is not satisfactory, change the D.S.T. setting to "ON" or "OFF" (Semi-Auto procedure, step 6 or Manual procedure, step 3).

The time and date can be set automatically from additional clock setting data that is transmitted by one of the regular TV broadcast channels. We call this TV channel the "Host Channel" and it is a PBS channel in your area. With the antenna cable connected, your VCR can automatically set the clock when the power plug is first connected to an AC outlet.

The auto clock function scans all the channels received by your VCR to find the clock setting data of the Host Channel.

*Don't turn the power on until the time (or "--: --") appears on the front display panel.

Before the clock is set, AUTO appears on the display.

NOT SET

_/



SFT



After setting, the current time appears (in hours and minutes).

The automatic clock setting function will normally set the clock correctly. However, if an incorrect time is displayed on the front display panel, you may be receiving the clock setting data of a PBS channel from an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform the Semi-Auto (F) pg. 9) or Manual (F) pg. 10) clock setting procedure.

If "AUTO" remains in the display for more than 30 minutes, perform the Semi-Auto (pg. 9) or Manual (pg. 10) clock setting procedure. In the case of Semi-Auto, you have to set the Host Channel manually.

If "AUTO CLOCK SET" or "SEMI-AUTO CLOCK SET" is selected, the clock will be adjusted automatically by the Host PBS every hour on the hour (except for 11:00 PM, midnight, 1:00 AM and 2:00 AM) according to the incoming PBS channel clock setting data. (Automatic clock adjustments can only be received when the VCR's power is turned off.)

If "--: - " appears on the display, your antenna cable may not be connected to the VCR, there may not be a Host PBS signal available in your area, or your cable box may not be set to the PBS channel. If everything is connected and set correctly, perform the manual clock setting procedure (pp. 10).

Preparation

1

TURN ON THE VCR

Press **POWER**. If watching channel 3 or 4, press **TV/VIDEO** to select the VIDEO mode. VIDEO is displayed on the front display panel.

ACCESS ON-SCREEN MENU

Press **MENU** to bring up the Main Menu screen.

2

ACCESS CUSTOM SET SCREEN

At the Main Menu screen, place the arrow next to "CUSTOM SET" by pressing CH▲▼, then press OK.

MAIN MENU

PROGRAM SET FUNCTION SET TUNER SET CUSTOM SET

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END





JVC

Language Select

ACCESS LANGUAGE SELECT SCREEN

The messages are preset to appear in English. If you want to see them in Spanish or French, place the arrow next to "LANGUAGE SELECT" by pressing **CH**▲▼, then press **OK**.

CUSTOM SET

OVERRIDE AUTO CLOCK SET LANGUAGE SELECT

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

SELECT LANGUAGE

At the Language Select screen, place the arrow next to the desired language by pressing CH▲▼, then press MENU. The Custom Set screen reappears.

LANGUAGE SELECT

→ENGLISH Español Francais

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

Clock Setting

This step must be performed before going on to Auto, Semi-Auto or Manual clock setting procedures (each starts from step 2).

ACCESS MODE SELECT SCREEN

Place the arrow at the Custom Set screen next to "OVERRIDE AUTO CLOCK SET" by pressing CH▲▼, then press OK.

CUSTOM SET

→OVERRIDE AUTO CLOCK SET LANGUAGE SELECT

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

Auto

SELECT MODE

At the Override Auto Clock Set screen, place the arrow next to "AUTO CLOCK SET" by pressing CH▲▼, then press OK.

OVERRIDE AUTO CLOCK SET

AUTO CLOCK SET SEMI-AUTO CLOCK SET MANUAL CLOCK SET

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

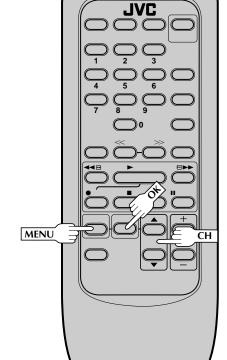
TURN OFF THE **VCR**

The Auto Clock Set screen appears. Read the message, press MENU to return to the normal screen, then turn off the VCR until you see the time displayed.

AUTO CLOCK SET

TO AUTOMATICALLY SET THE CLOCK, TURN THE VCR OFF NOW.

LEAVE OFF UNTIL TIME IS DISPLAYED ON VCR.

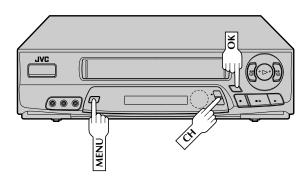


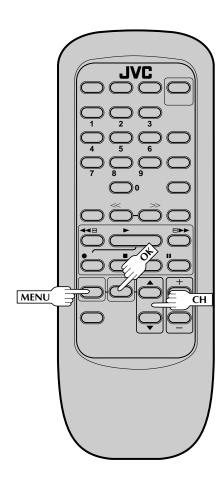












**AUTO DAYLIGHT SAVING TIME

This function enables automatic adjustment of the VCR's clock at the start and end of Daylight Saving Time. With Auto DST activated, . .

- . . . on the first Sunday of April at 2:00 AM, the clock is adjusted to 3:00 ÁM.
- on the last Sunday of October at 2:00 AM, the clock is adjusted to 1:00 AM.

Semi-Auto

SELECT MODE

At the Override Auto Clock Set screen, place the arrow next to "SEMI-AUTO CLOCK SET" by pressing CH▲▼, then press OK.

ACCESS SELECT SCREENS

At the Semi-Auto Clock Set screen, place the arrow next to the desired mode by pressing CH▲▼, then press OK.

To select the Host Channel – step 4

To select the D.S.T. mode — step 6

To select the Time Zone step 5

SEMI-AUTO CLOCK SET +HOST CHANNEL SELECT

TIME ZONE SELECT D.S.T. SELECT

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

SELECT HOST CHANNEL

You can either select "AUTO", or enter a PBS channel number. For automatic channel selection, simply press MENU. To manually select the PBS channel, press the appropriate NUMBER key,

CH▲▼ to cycle through the channel numbers (hold

HOST CHANNEL SELECT (TV) CH AUTO

button down to speed through numbers) and stop when

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

NOTE:

There are some PBS channels that do not transmit clock setting data.

the desired number appears. Press MENU and the

SELECT TIME ZONE

Semi-Auto Clock Set screen reappears.

You can either select "AUTO", or select the correct zone. If you selected "AUTO" in step 4 and if you live near the boundary of an adjacent time zone, or receive cable TV channels, a PBS channel from a different

TIME ZONE SELECT MOUNTAIN Pacific Alaska ATLANTIC EASTERN CENTRAL HAWAII PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

time zone may become your host channel. Therefore, in this case make sure to manually select the correct time zone. Place the arrow next to your choice by pressing CH▲▼, then press MENU to return to the Semi-Auto Clock Set screen.

CONTINUED ON NEXT PAGE.





JVC



SELECT D.S.T. MODE

You have three choices: **a**–Select "AUTO" and the adjustment to your VCR's clock will be made according to the incoming signal from the host channel.

channel. **b**–Select "ON" and the adjustment will be made

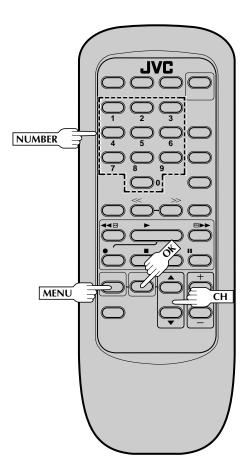
D.S.T. SELECT

→AUTO
ON
OFF

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

based on the clock itself. **c**–Select "OFF" if Daylight Saving Time doesn't apply to

Place the arrow next to your choice by pressing CH▲▼, then press MENU and the Semi-Auto Clock Set screen reappears.



Manual

SELECT MODE

At the Override Auto Clock Set screen, place the arrow next to "MANUAL CLOCK SET" by pressing CH▲▼, then press OK.

SET DATE, TIME AND D.S.T.

Press the appropriate **NUMBER** keys to set the date and time (if only 1 digit, press "0" first), and press **CHAV** to set AM/ PM and D.S.T. (Daylight Saving Time) to "ON" (automatic adjustment based on VCR's clock) or

MANUAL CLOCK SET

DATE 1/ 1/96 MON
TIME --: -- AM
D.S.T. ON

PRESS NUMBER KEY(0-9)
OR (△.▼), THEN (OK)
PRESS (MENU) TO END

"OFF" (if D.S.T. doesn't apply to you).
Press **OK** after AM/PM and D.S.T. settings, and when you're finished with this screen, press **MENU** to start the clock.

NOTE:

CHA▼ can be used to perform all operations. (In this case, press **OK** after each setting.)

MAKE CORRECTIONS

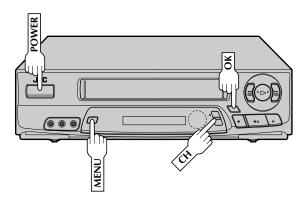
4

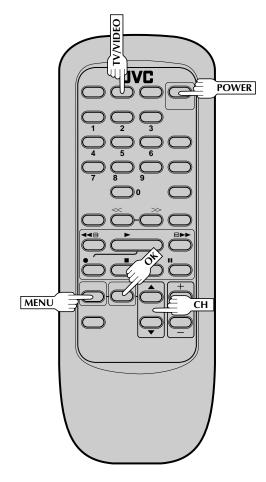
To change any of the settings, press \mathbf{OK} until the item you want to change blinks, then set as in step $\mathbf{3}$.





Tuner





Set Receivable Channels

1

TURN ON THE VCR

Press **POWER**. If watching on channel 3 or 4, press **TV/VIDEO** to select the VIDEO mode. VIDEO is displayed on the front display panel.

ACCESS MAIN MENU SCREEN

Press **MENU**.

2

ACCESS TUNER SET SCREEN

Place the arrow next to "TUNER SET" by pressing CH▲▼, then press OK.

ACCESS BAND SCREEN

Place the arrow next to "BAND" by pressing CH▲▼, then press OK.

TUNER SET

→BAND
AFC
AUTO CHANNEL SET
MANUAL CHANNEL SET

PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

SET FREQUENCY BAND

If you receive your TV channels from an external antenna, select "TV". If you receive your TV channels from a cable TV system, select "CATV". Place the arrow next to your choice by pressing

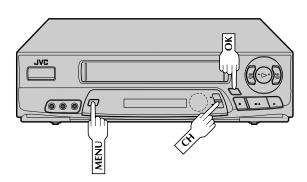
your choice by pressing CHAV, then press MENU to return to the Tuner Set screen.

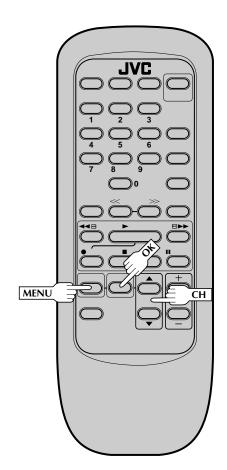
TV →CATV

BAND

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

CONTINUED ON NEXT PAGE.





PERFORM AUTO CHANNEL SET

Place the arrow next to "AUTO CHANNEL SET" by pressing CH▲▼, then press OK. Receivable channels in your area are automatically assigned to the CH▲▼ buttons, and non-receivable channels are skipped.

AUTO CHANNEL SET

CH (TV)
CH 2 ADD

SCANNING ...

PRESS (MENU) TO END

NOTES:

- At the end of Auto Channel Set, "SCAN COM-PLETED" appears on screen.
- If the scan was unsuccessful, "SCAN COMPLETED— NO SIGNAL" appears on screen. Check the band setting and connections and start again.

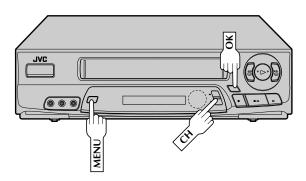
RETURN TO NORMAL SCREEN

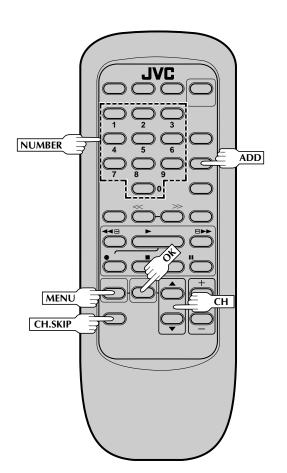
Press **MENU** as many times as necessary.





13





Add Or Delete A Channel

ACCESS TUNER SET SCREEN

Access by performing steps ${\bf 2}$ and ${\bf 3}$ of the Tuner procedure.

- To add a channel, go to step 2.
- To delete a channel, skip to step 4.

ACCESS AFC SCREEN

Place the arrow next to "AFC" by pressing $\mathbf{CH} \blacktriangle \blacktriangledown$, then press \mathbf{OK} .

MAKE SELECTION

Place the arrow next to "SPCL" by pressing CH▲▼, then press MENU to return to the Tuner Set screen.

AFC NORM →SPCL

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

ACCESS MANUAL CHANNEL SET SCREEN

Place the arrow next to "MANUAL CHANNEL SET" by pressing **CH**▲▼, then press **OK**.

STORE DESIRED CHANNEL

Input the channel number using the **NUMBER** keys or by pressing **CH**▲▼, then press **ADD** to add or **CH.SKIP** to delete. Repeat for each channel you want to store or skip.

MANUAL CHANNEL SET (CATV) CH 125 SKIP

SELECT CH NO. AND PRESS (ADD/SKIP) PRESS (MENU) TO END

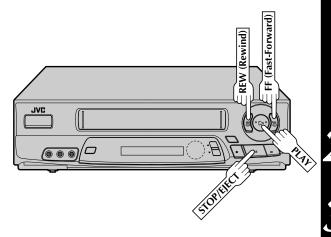
RETURN TO NORMAL SCREEN

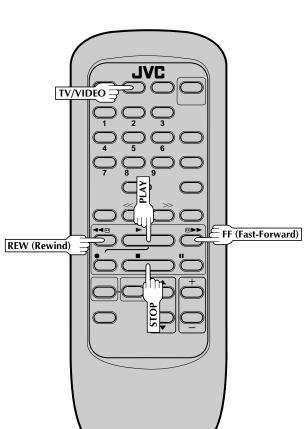
Press MENU as many times as necessary.

•



Simple Playback





LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Don't apply too much pressure when inserting.

- The VCR's power comes on automatically.
- If watching channel 3 or 4, press TV/VIDEO to select the VIDEO mode. VIDEO is displayed on the front display panel.
- The counter is automatically reset to "0H 00M 00S".
- If the cassette's record safety tab has been removed, playback begins automatically.

FIND PROGRAM START POINT

If the tape is advanced past the start point, press **REW**. To go forward, press **FF**.

START PLAYBACK

Press PLAY.

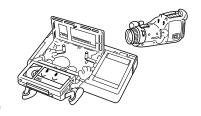
STOP PLAYBACK

Press **STOP** or **STOP/EJECT**. Then press **STOP/EJECT** to remove the tape.

Usable cassettes

Full-Size VHS T-30 (ST-30**) T-60 (ST-60**) T-90 T-120 (ST-120**) T-160 (ST-160**) ST-210**

Compact VHS* TC-20 (ST-C20**) TC-30 (ST-C30**) TC-40 (ST-C40**)

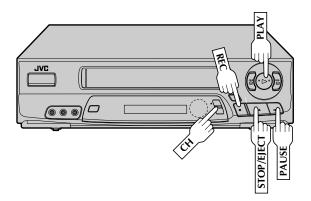


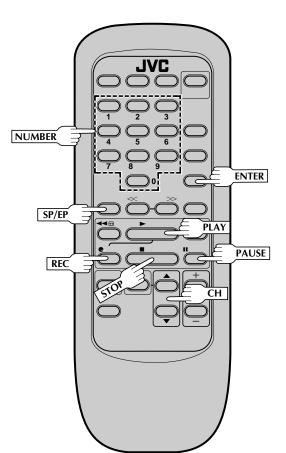
- * Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- ** This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.





Simple Recording





LOAD A CASSETTE

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape before inserting the cassette.

SELECT RECORDING

Press CH▲▼. Or press the appropriate NUMBER keys, then press ENTER. (The channel changes after a few seconds whether you press ENTER or not.)

SET TAPE SPEED

Press **SP/EP** to set the recording speed.

START RECORDING

Press **REC** and **PLAY** on the remote control together, or press REC on the VCR's front panel.

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

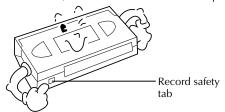
STOP RECORDING

Press STOP or STOP/EJECT. Then press STOP/EJECT to remove the cassette.

Accidental erasure prevention

• To prevent accidental recording on a recorded cassette, remove its record safety tab.

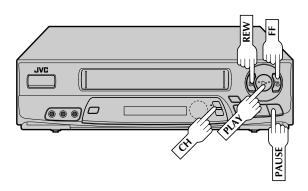
To record on it later, cover the hole with adhesive tape.







Playback



Still Picture

1

PAUSE DURING PLAYBACK

Press **PAUSE**. If there is vertical jitter, press **CH**▲ or ▼ on the VCR's front panel or remote to stabilize the picture.

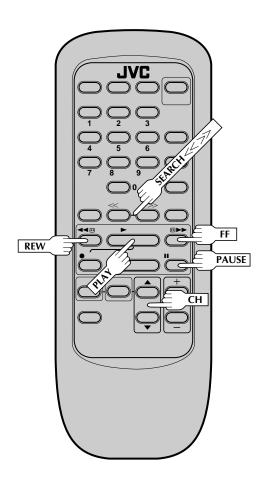
FRAME-BY-FRAME PLAYBACK

Advance the tape one frame by pressing **PAUSE** again.

 To control direction, press SEARCH<< or >> during still picture mode.

RESUME NORMAL PLAYBACK

Press PLAY during still picture mode.



Slow, Reverse, Reverse Slow Or Fast-Motion Picture

DURING PLAYBACK

Press **SEARCH**<< or >>.

- To increase the speed in the forward direction, press >>.
- To decrease the speed in the forward direction, press <<.
- To play in reverse slow motion, and in reverse play mode, continue to press << after selecting all the forward slow motion modes.

Press **FF** for forward fast motion, or **REW** for reverse fast motion.

RESUME NORMAL PLAYBACK

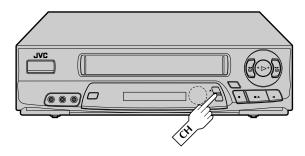
Press **PLAY**.

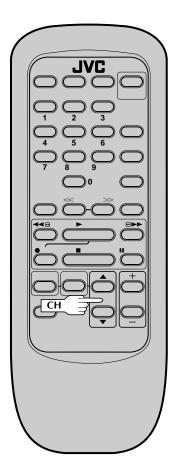
NOTES:

- Press and hold FF or REW for more than 2 seconds for short fast-motion searches. When the button is released, normal playback resumes.
- If noise bars appear during playback or slow motion, correct using manual tracking. (pg. 17).









Manual Tracking

Once playback begins, the VCR's automatic tracking function is engaged. If noise appears in the picture, you can override this and make the adjustment manually.

ENGAGE MANUAL TRACKING MODE

During playback, press the CH▲▼ buttons on the VCR's front panel simultaneously to cancel the automatic tracking mode and enable manual tracking adjust.

ADJUST MANUAL TRACKING

Press $\mathbf{CH} \blacktriangle \blacktriangledown$ on the VCR's front panel or remote. Press lightly for fine adjust, or press and hold for coarse adjust. Watch the screen and continue adjusting until optimum picture and sound quality are achieved.

RE-ENGAGE AUTOMATIC TRACKING

Press the $\mathbf{CH} \blacktriangle \blacktriangledown$ buttons on the VCR's front panel simultaneously.

NOTE:

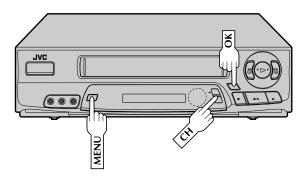
During slow-motion playback, simply press $\mathbf{CH} \blacktriangle$ or \blacktriangledown on the VCR's front panel or remote to adjust tracking.

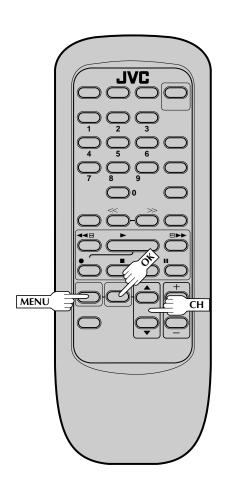




Select The Soundtrack

Your VCR can record two soundtracks simultaneously (Normal and Hi-Fi) and play back the selected one, or both together.





ACCESS MAIN MENU SCREEN

Press **MENU** during playback or when VCR is in stop mode.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼, then press OK.

ACCESS AUDIO MONITOR SCREEN

Place the arrow next to "AUDIO MONITOR" by pressing CH▲▼, then press OK.

FUNCTION
AUTO TIMER
SUPERIMPOSE
2ND AUDIO
AUDIO MONITOR
AUX INPUT

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

SELECT MODE

You have three choices:

a– Hi-Fi

b– Normal

c– Mix

Place the arrow next to your choice by pressing **CHA**.

AUDIO MONITOR

→HI-FI Norm Mix

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

NOTE:

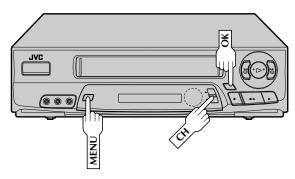
If the tape being played back has no Hi-Fi soundtrack, the Normal soundtrack will be heard no matter what choice you make at the Audio Monitor screen.

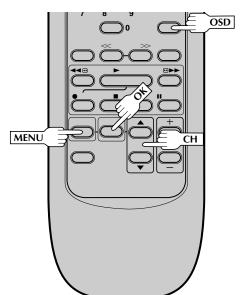












To recall an indication

- 1 Press **OSD**.
 - All indications corresponding to the current status are displayed for 5 seconds, leaving the counter information, and RECORD/PAUSE if in the Record Pause mode, on the screen. (No indication during still and search.)
- 2 Press **OSD** again to clear the display.

Superimpose

This function, switchable between ON and OFF, determines whether or not operational indicators will appear on screen.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼, then press OK.

ACCESS SUPERIMPOSE SCREEN

Place the arrow next to "SUPERIMPOSE" by pressing CH▲▼, then press OK.

FUNCTION AUTO TIMER SUPERIMPOSE 2ND AUDIO AUDIO MONITOR AUX INPUT

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

SELECT MODE

Place the arrow next to "ON" or "OFF" by pressing CH▲▼.

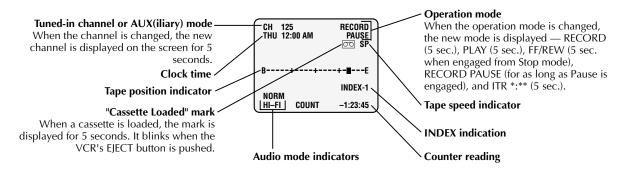
SUPERIMPOSE

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

RETURN TO NORMAL **SCREEN**

Press **MENU** as many times as necessary.

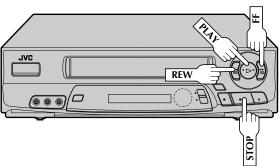
The superimposed indication on the TV screen tells you what the VCR is doing.











Skip Search

SKIP OVER UNWANTED SECTIONS

Press **SKIP SEARCH** 1 to 4 times during playback. Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

NOTE:

To return to normal playback during a Skip Search, press **PLAY**.

Repeat Playback

START REPEAT

Press and hold **PLAY** (until "PLAY" blinks on the front display panel) during playback, then release.

•The entire tape is played back 20 times.

STOP REPEAT

21

To stop, press **STOP** at any time.

NOTE:

Pressing **PLAY**, **REW**, **FF** or **PAUSE** also stops Repeat Playback.



This function seeks out index codes that are placed on the tape at recording start.

1

START SEARCH

While the tape is stopped, press **SEARCH** << or >>.

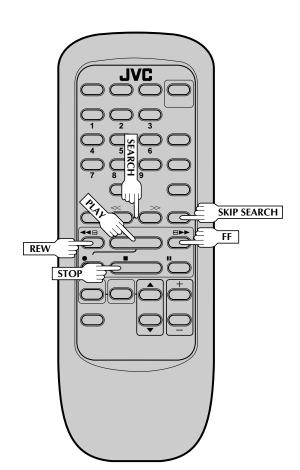
ACCESS DISTANT CODE

2

To access a recording 2–9 index codes away, press **SEARCH** << or >> repeatedly until the correct number is displayed on screen (only if SUPERIMPOSE is set to ON (Lagrange) Playback begins automatically when desired recording is located.

•To find the very beginning of the desired program, press **REW** or **FF** and search visually for the start point.



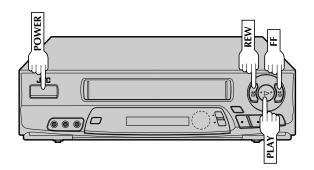












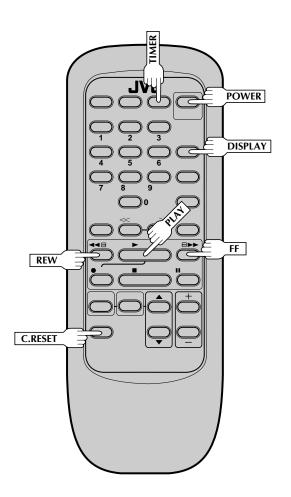
Counter Reset

RESET COUNTER TO ZERO

Press C.RESET.

NOTE:

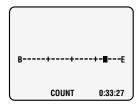
By pressing the **DISPLAY** button, you can change the display to show the counter reading, channel number or clock time. (Channel number is not displayed during playback.)



Tape Position Indicator

The Tape position indicator appears on screen when, from the stop mode, you press FF, REW or perform an Index Search. The position of "■" in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.

** SUPERIMPOSE must be set to ON, or the indicator will not appear (pg. 19).



Next-Function Memory

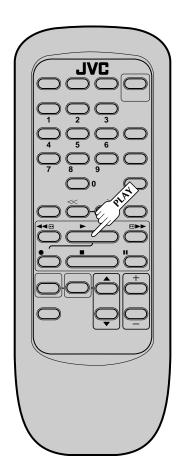
The Next Function Memory "tells" the VCR what to do after rewinding.

- * Before continuing, ensure that the VCR is in stop mode.
- a- For Automatic Start Of Playback After Tape Rewind . . .
- . . . press **REW**, then press **PLAY** within 2 seconds.
- **b** For Automatic Power Off After Tape Rewind . . .
- ... press **REW**, then press **POWER** within 2 seconds.
- $c extsf{-}$ For Automatic Timer Standby After Tape Rewind . . .
- ... press **REW**, then press **TIMER** within 2 seconds.





JVC JVC



AV COMPU LINK Playback

Your VCR is compatible with JVC's AV COMPU LINK components, including amplifiers, receivers, and televisions.

1

MAKE CONNECTION

Connect your VCR to an AV COMPU LINK component as shown in the illustration.

• The AV COMPU LINK cable is a mono 3.5 mm miniplug to mono 3.5 mm mini-plug connector.

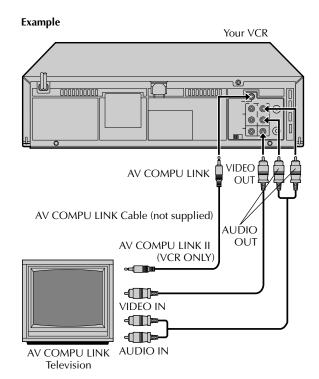
AV COMPU LINK PLAYBACK

2

Load a cassette and press **PLAY**. (If the record safety tab has been removed, playback begins automatically.) The linked components come on, and the TV is set to its VIDEO mode, automatically.

NOTE:

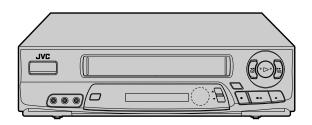
Connection varies depending on the type of TV you have. Please consult your TV's instruction manual when making the connection.

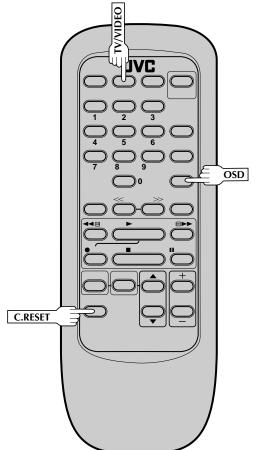






Recording





Record One Program While Watching Another

ENGAGE TV MODE

During recording...

- If using the RF connection (pg. 6), press TV/VIDEO. The VCR's VIDEO indicator goes out and the TV broadcast being recorded disappears.

 • If using the AV connection (pg. 6), change the
- TV's input mode from AV to TV.

SELECT CHANNEL FOR VIEWING

Use the TV's channel selector to set the channel you want to watch.

Display Elapsed Recording Time

RESET COUNTER TO ZERO

Before recording starts, press C.RESET. The counter resets to zero and displays the exact elapsed time as the

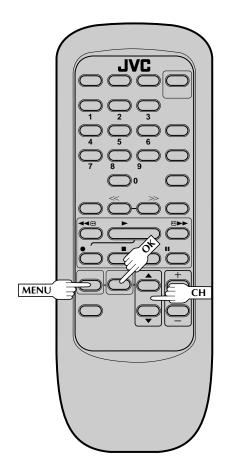
DISPLAY ELAPSED TIME ON SCREEN

During recording, press OSD at any time to see the elapsed time. Press again to remove the display.

• Make sure "SUPERIMPOSE" is set to "ON" (pg. 19).







Stereo And SAP (Second Audio Program)

Your VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcasts.

- The ST indicator on the front display panel lights during stereo broadcast reception, and SAP lights during SAP program reception.
- Both indicators light when a stereo program is accompanied by SAP audio.

To Record Stereo Programs . . .

. . . simply follow the basic recording procedure.

To Listen To Stereo Soundtrack During Recording . . .

... select "HI-FI" at the Audio Monitor screen (pg. 18).

To Record SAP Programs . . .

ACCESS MAIN MENU SCREEN Press MENU.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼, then press OK.

ACCESS 2ND AUDIO SCREEN

Place the arrow next to "2ND AUDIO" by pressing CH▲▼, then press OK.

SELECT MODE

Place the arrow next to "ON" by pressing **CH**▲▼.

2ND AUDIO →ON_

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

NOTES:

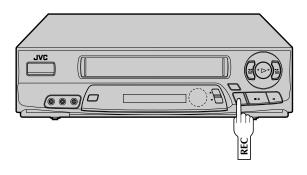
- If a SAP program is received, the SAP audio is recorded on both the Normal and Hi-Fi tracks. The main audio program is not recorded.
- If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and Normal audio tracks.







Instant Timer Recording (ITR)





This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the VCR off after recording is finished.

1

START RECORDING

Press REC

ENGAGE ITR MODE

Press **REC** again. ITR blinks and 0:30 appears on the front display panel.

SET RECORDING DURATION

If you want to record for more than 30 minutes, press **REC** to extend the time. Each press extends recording time by 30 minutes.

NOTES:

- You can only perform ITR using the REC button on the VCR's front panel.
- After you set the time, the previous display reappears.
- To check remaining recording time, press REC once during recording and the remaining time is displayed for about 5 seconds. Be careful not to press again during this 5 seconds, or you'll add 30 more minutes to the recording.



* Refer to the illustration on page 26.

You can directly program the VCR's timer to record up to 8 shows, as far as a year in advance. Remember, the clock must be set before you can program the timer (LEF pg. 7).

1

OAD A CASSETTE

Make sure the record safety tab is intact. If not, cover the holewith adhesive tape, then load.

• The VCR comes on, and the counter is reset, automatically.

ACCESS PROGRAM SET SCREEN

Press **MENU**, then press **OK**.

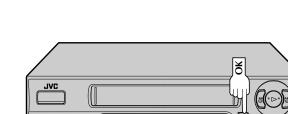
PROGRAM 1

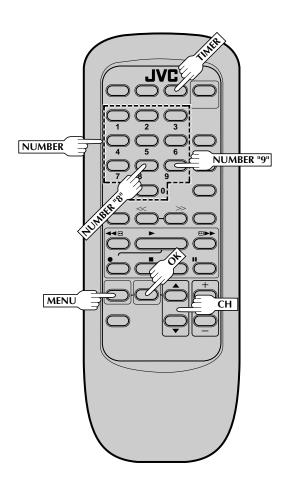
DATE --/-START --:--AM
STOP --:--AM
CHANNEL --SP
PRESS NUMBER KEY(0-9)
OR (▲,▼), THEN (OK)
PRESS (MENU) TO END

CONTINUED ON NEXT PAGE.









EXAMPLE

If you program the VCR to timer record a show on September 6 on channel 40 from 12:00 noon to 1:00 PM in SP mode, the screen will look like this:

PROGRAM 1

DATE 9/6 SUN START 12:00 PM STOP 1:00 PM CHANNEL 40 SP

PRESS NUMBER KEY(0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END

SELECT PROGRAM NUMBER

Press the appropriate **NUMBER** keys or **CH**▲▼ to select a vacant program number, then press **OK**. The first time you do this, all numbers will be vacant, so just press **OK** when the screen appears.

SET PROGRAM INFORMATION

Press the appropriate **NUMBER** keys to set the date, start/stop time and channel number. Press **CH**▲▼ to set AM/PM, channel number and tape speed. Then press **OK** after AM/PM and tape speed settings.

- Any information comprised of 1 digit (except the channel number) should have a "0" entered before it.
- It is possible to set all information using the CH▲▼ buttons. (In this case, press OK after each setting.)
- ** You can record selected programs at the same time every weekday, or once a week. Before entering the month, press **NUMBER** key "8" (DAILY) or "9" (WEEKLY). Either "DAILY" or "WEEKLY" appears. Press again and "DAILY" or "WEEKLY" disappears.

MAKE CORRECTIONS

To change any of the settings, press **OK** until the item you want to change begins blinking. Then set as in step **4**.

RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

• Press just once to access the Auto Timer screen (F) pg. 28).

ENGAGE TIMER MODE

Press TIMER. The VCR turns off automatically.

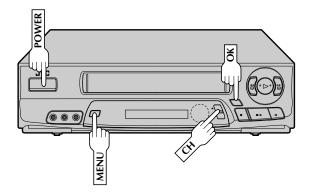
NOTES:

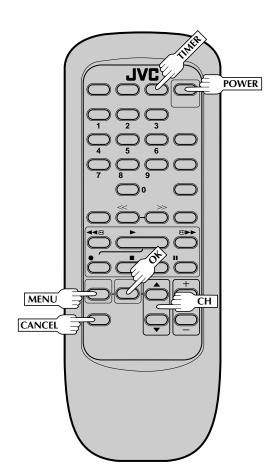
- To disengage the timer before recording starts, press **TIMER** again. Pressing once more re-engages it.
- In case of a power failure after programming, the VCR's memory backup keeps your selections for 10 minutes.
- If you select "PROGRAM SET" without having set the date and time, an error message appears. Follow its instructions.
- If you enter a start time that has already passed, ERROR appears on the screen and flashes.
- Programs that start after midnight must have the next day's date.
- After timer recording is completed, the VCR's power goes off automatically.
- You can program the timer while a regular recording is in progress; the on-screen menu will not be recorded.
- If the end of tape is reached during timer recording, the cassette is automatically ejected.
- When timer-recording cable channels received through a Cable Box, be sure to keep the Cable Box set to ON.











Check And Cancel Programs

1

DISENGAGE TIMER

Press **TIMER**, then press **POWER**.

ACCESS PROGRAM SET SCREEN

Press **MENU**, then press **OK**.

CHECK PROGRAM INFOR-MATION

Press **CH**▲▼ to check the programs in succession.

To Cancel A Program . . .

CANCEL A PROGRAM Press CANCEL.

• Repeat steps 3 and 4 as many times as necessary.

RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary. If there are still programs remaining, go to step **6**.

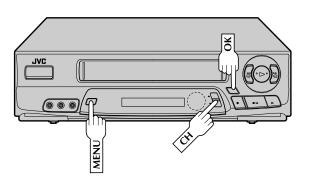
RE-ENGAGE TIMER

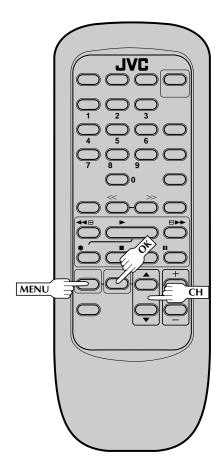
Press **TIMER** again.





TIMER RECORDING (cont.)





Auto Timer

When activated, this function engages the timer when the VCR is turned off, and disengages it when the power is turned on, automatically.

> **ACCESS MAIN MENU SCREEN**

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing **CH**▲▼, then press **OK**.

ACCESS AUTO TIMER **SCREEN**

Place the arrow next to "AUTO TIMER" by pressing procedure below.

Or, during on-screen timer programming ...

ACCESS FUNCTION SET

In step 5 in the On-Screen Timer Programming procedure (F pg. 26), press MENU.

SELECT MODE

Place the arrow next to your choice ("ON" or "OFF") by pressing **CH**▲▼.

AUTO TIMER

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

RETURN TO NORMAL **SCREEN**

Press **MENU**.

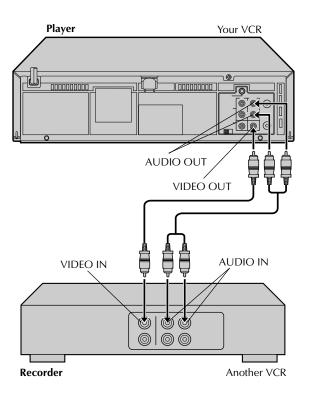






EDITING 29

Edit To Or From Another VCR



You can use your VCR as the player or the recorder.

1

MAKE CONNECTIONS

Connect an AV cable (not supplied) between the player's VIDEO OUT and AUDIO OUT connectors and the recorder's VIDEO IN and AUDIO IN connectors.

 When using your VCR as the recorder and a monaural VCR as the player, connect the player's AUDIO OUT connector to the AUDIO IN L connector on the recorder.

LOAD CASSETTES

Insert the playback cassette into the player and the cassette to be recorded on into the recorder.

SET RECORDER'S INPUT MODE

Set to AUX. With this VCR, press **NUMBER** key "0" (AU appears on the front display panel in place of a channel number).

NOTE:

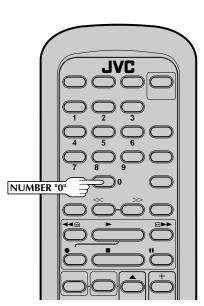
When using this VCR as the recorder, make sure to select "FRONT" or "REAR" (depending on which input connectors you use) at the Aux Input Screen (pg. 30, "Edit From A Camcorder" steps 4 – 8).

START PLAYER

Set to its play mode.

START RECORDER

Set to its record mode.

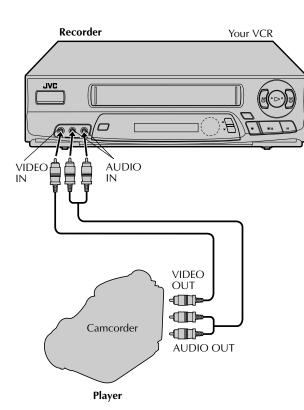


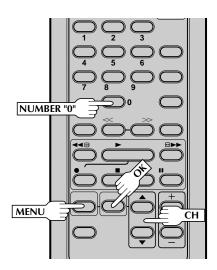




30 EDITING (cont.)

Edit From A Camcorder





You can use a camcorder as the player and your VCR as the recorder.

MAKE CONNECTIONS

Connect an AV cable (not supplied) between the camcorder's VIDEO OUT and AUDIO OUT connectors and your VCR's VIDEO IN and AUDIO IN connectors.

 When using a monaural camcorder, connect its AUDIO OUT connector to the AUDIO IN L connector on your VCR.

LOAD A CASSETTE

Insert the cassette to be recorded on into the recorder.

SET RECORDER'S INPUT MODE

Set to AUX by pressing **NUMBER** key "0".

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼, then press OK.

ACCESS AUX INPUT SCREEN

Place the arrow next to "AUX INPUT" by pressing CH▲▼, then press OK.

SELECT INPUT

If you are connecting the AV cable to the AV connectors on the front of the VCR, place the arrow next to "FRONT" by pressing CH▲▼. If you are connecting the AV cable to the AV connectors on the back of the VCR, place the

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

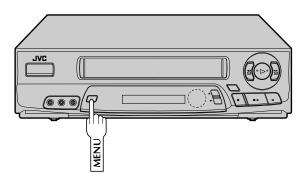
AUX INPUT

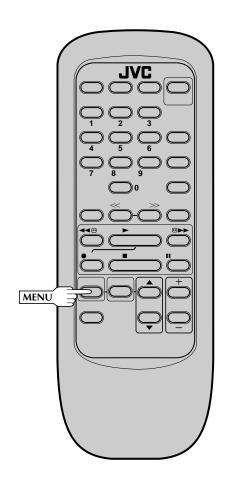
→FRONT REAR

arrow next to "REAR" by pressing CH▲▼.









RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

START PLAYER

Set the camcorder to its play mode.

START RECORDER

Set your VCR to its record mode.

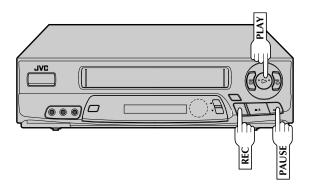
 Refer to camcorder/VCR's instruction manual for operation instructions.

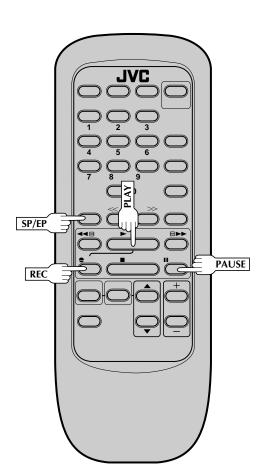
•



32 **EDITING** (cont.)

Assemble Editing





Assemble Editing adds one recorded scene to another in

To use your VCR as the recorder ...

LOAD CASSETTES

Insert the original cassette in the player, and the recording cassette in the recorder.

SET TAPE SPEED

Set to "SP" or "EP" by pressing the $\mbox{\bf SP/EP}$ button on the remote control.

ENGAGE RECORD-STANDBY MODE

Press REC and PAUSE together.

FIND EDIT START POINT

Play back the original tape until you reach the scene to be edited.

START EDITING

When you reach the scene on the original tape to be edited, press PLAY to initiate the recorder's record

STOP EDITING

Press PAUSE to pause the tape in the recorder.

CONTINUE EDITING

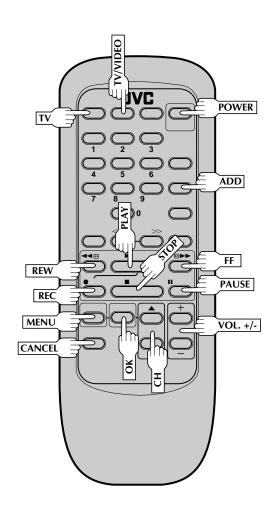
Repeat steps ${\bf 4}$ through ${\bf 6}$ as you like.

Assemble Editing is also possible using your VCR as the playback deck.









Multi-Brand Remote Control

In addition to controlling several functions on JVC remote control TVs, the VCR's remote control can control these functions on the TV brands listed below. If your television is a JVC, you don't have to set the code in step ${\bf 1}$.

SELECT TV BRAND

Refer to the chart below. While holding down **TV**, press the Brand Selection Button that corresponds to the brand of your TV.

 You don't have to repeat this step until you replace the remote control's batteries.

OPERATE TV

While holding down TV, press POWER, CH▲▼ or TV/VIDEO to control these functions. VOL+/– can be operated without holding TV down.

• The **NUMBER** keys cannot be used to set or change the channel on the TV.

BRAND SELECTION BUTTON	TV BRAND NAME
REW	JVC
PLAY	MAGNAVOX
FF	MITSUBISHI
REC	PANASONIC
STOP	RCA
PAUSE	SHARP
MENU	SONY
OK	TOSHIBA
ADD	ZENITH
CANCEL	HITACHI

NOTES:

- With some televisions, the **TV/VIDEO** button only functions to switch the TV to its VIDEO (AV) mode. It may not switch the TV back to its TV mode.
- Although the provided remote control is compatible with JVC televisions as well as many TV models manufactured by other companies, it is possible that the provided remote control will not work with your TV.









TROUBLESHOOTING

Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your VCR off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The power won't come on.	• The power cord is disconnected.	Connect the power cord.
2. The clock works, but the VCR's power won't come on.	• The TIMER mode is engaged with Auto Timer set to "OFF" (pg. 28).	Press TIMER to disengage.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The cassette gets stuck partway during loading, and is ejected.	The cassette was inserted incorrectly.	Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Then insert the cassette
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The tape is running but the picture won't appear. 	 If you're using the RF OUT connection (pg. 6), the channel selector on the TV is set incorrectly. If you're using the AV connection (pg. 6), the TV receiver is set to the wrong mode. 	Set the channel selector to channel 3 or 4. Set the TV receiver to its AV mode.
2. Noise appears during visual search.	• This is normal.	
3. Breaks are noticeable in Hi-Fi soundtrack.	Automatic tracking is engaged.	Engage and adjust tracking manually (ﷺ 17).
 The playback picture is blurred or interrupted, even though TV broadcasts are clear. 	• The video heads may be dirty.	The heads must be cleaned. Consult your JVC dealer (127 pg. 41).
5. The Hi-Fi soundtrack cannot be heard.	 The AUDIO MONITOR option at the Function Set screen was set incorrectly. 	Set AUDIO MONITOR to "HI-FI" (☞ pg. 18).
RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording won't start.	 There's no cassette loaded. The loaded cassette has had its record safety tab removed. 	Insert a cassette. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.
TV broadcasts won't record properly.	 The VCR has been set to its AUX mode by mistake. 	Set the VCR to the appropriate channel.
3. Tape-to-tape editing won't work.	 The camcorder and the VCR have been incorrectly connected. The power to one or more of the units has not been turned on. The recorder's input mode has been set incorrectly. 	Refer to the directions and the illustration under "Edit From A Camcorder" (pg. 30) and properly connect the units. Make sure the power to all units is on. Set the recorder's input mode to AUX and select "FRONT" or "REAR" at the Aux Input Screen (pg. 30).



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TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording won't work.	 The clock and/or the timer have been set incorrectly. The timer is not engaged. The VCR has not been set up properly. 	Check or re-perform the clock/timer settings to ensure correctness. Press TIMER and check to make sure that TIMER appears on the front display panel. Re-perform the set-up procedures (F) pg. 7).
On-screen timer programming won't work.	• Timer recording is in progress.	Timer programming can't be performed when timer recording is in progress. Wait until it finishes.
3. TIMER and oo on the front display panel won't stop blinking.	• The timer is engaged but there's no cassette loaded.	Load a cassette with the record safety tab intact, or with the hole covered with adhesive tape.
4. The cassette is automatically ejected, and TIMER and oo on the front display panel won't stop blinking.	 The loaded cassette has had its record safety tab removed. 	Remove the cassette and cover its hole with adhesive tape, or replace it with a cassette on which the safety tab is intact.
TIMER blinks for 10 seconds and the timer mode is disengaged.	 TIMER has been pressed when there are no programs in memory, or the timer record program information has not been programmed correctly. 	Check the programmed data and reprogram as necessary, then press TIMER again.
6. The cassette is automatically ejected, the power shuts off and TIMER and OO won't stop blinking.	 The end of tape was reached during timer recording. 	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.
OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 When scanning channels, some of them are skipped over. 	 Those channels have been preset to be skipped. 	If you need the skipped channels, restore them (pg. 13).
2. The channel can't be changed.	• Recording is in progress.	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.
3. Even though Auto or Semi-Auto clock setting has been selected, the clock is incorrect.	 The clock setting data received from the Host Channel is incorrect. 	Select a different Host Channel during the Semi-Auto setting procedure (F), or perform the Manual setting procedure (F) pg. 10).

ATTENTION:

This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the power off and unplug the power cord. Then plug it in again and switch power on. Take out the cassette. After checking the cassette, operate the unit as usual.







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QUESTIONS AND ANSWERS

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search? A. The tape is automatically rewound to the beginning. Q. Can the VCR indefinitely remain in the still mode? A. No. It stops automatically after 5 minutes to protect the heads. Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem? A. This is normal. Q. During search, still and frame-by-frame playback, the picture is intermittent. What's the cause? **A.** Picture loss occurs when these types of playback are attempted with a tape recorded in LP mode. Pressing PLAY to return to normal playback will restore the picture. Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this? **A.** No, it is normal. Q. Noise bars appear during multi-speed search. What's the problem? **A.** This is normal. Q. Other than preventing further recording, what effect does removing the safety tab have? **A.** It disables marking of index codes.

Q. Sometimes, during Index Search, the VCR can't find

the program I want to see. Why not?

A. There may be index codes too close together.

RECORDING

- Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the new recording. Why does this happen?
- **A.** This is normal. It reduces distortion at the pause and resume points.
- Q. Can the VCR indefinitely remain in the Record-Pause mode?
- **A.** No. The VCR shuts off automatically after 5 minutes to protect the heads.
- **Q.** What happens if the tape runs out during recording? **A.** The VCR automatically rewinds it to the beginning.

TIMER RECORDING

- Q. REC and TIMER remain lit on the front display panel. Is there a problem?
- **A.** No. This is a normal condition for a timer recording in progress.
- Q. Can I program the timer while I'm watching a tape or a TV broadcast?
- A. You won't see the picture as it is replaced by the onscreen menu, but the audio from the program or tape you're viewing is present.







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INDEX

List Of Terms

This guide serves as a quick way to locate frequently used terms and on-screen display names. The first page on which the term appears is listed. Most terms appear more than once in the instruction manual.

A	
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Audio Monitor	.18
Auto Channel Setting	.12
Auto Clock	8
Auto Clock Setting	8
Auto Daylight Saving Time	9
Auto Timer	.28
Automatic Tracking	.17
Aux Input	
AV Compu Link Playback	.22
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В	
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Check Program	
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u	
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• • • • • • • • • • • • • • • • • • •	9
Index Search	.20
Insert Cassette	.14
ITR (Instant Timer Recording)	25

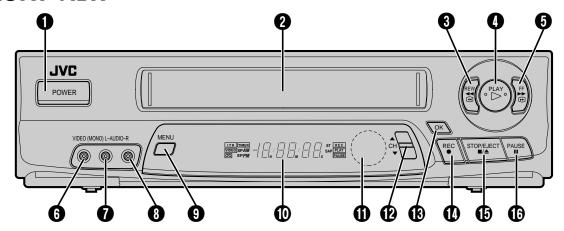
L
Language Selection
Main Menu1Manual Channel Setting1Manual Clock Setting1Manual Tracking1MBR (Multi-Brand Remote) Code Setting3
N
Next-Function Memory
0
On-Screen Display
P
PBS Channel
R
Record Safety Tab
<u>S</u>
SAP (Second Audio Program) 24 Second Audio 25 Semi-Auto Clock Setting 26 Skip Search 26 Slow Motion Playback 10 Specifications 40 Still Playback 10 Superimpose 11
T
Tape Position Indicator





38 INDEX (cont.)

FRONT VIEW

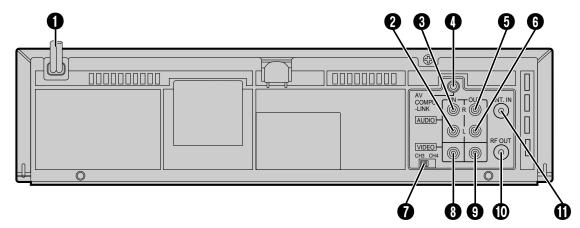


- Power ON/OFF Button (F pg. 7)
- Cassette Loading Slot
- 3 Rewind Button (pg. 14) Reverse Search Button (F pg. 16)
- ◆ Play Button (☐ pg. 14)
- **⑤** Fast-Forward Button (□ pg. 14) Forward Search Button (pg. 16)

 Video Input Connector (pg. 30)
- 7 Mono Audio Input Connector (☐ pg. 30) Audio Input Connector [L] (pg. 30)

- **3** Audio Input Connector [R] (☐ pg. 30)
- Menu Button (© pg. 7)
- Tront Display Panel (F pg. 39)
- **11** Remote Control Sensor
- Channel ▲▼ Buttons (□ pg. 7)
- **13** OK Button (**□** pg. 7)
- Record Button (pg. 15)
- **ⓑ** Stop/Eject Button (♠ pg. 14)
- 16 Pause Button (15 pg. 15)

REAR VIEW

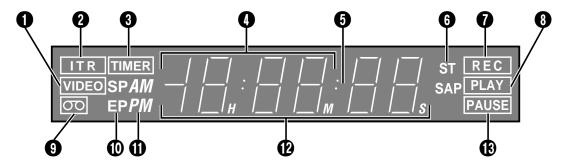


- Power Cord (🖙 pg. 6)
- 2 Mono Audio Input Connector (F pg. 29) Audio Input Connector [L] (pg. 29)
- 3 Audio Input Connector [R] (pg. 29)
- 4 AV COMPU LINK Connector (pg. 22)
- **5** Hi-Fi Audio Output Connector [R] (pg. 6)
- **6** Hi-Fi Audio Output Connector [L] (☐ pg. 6)
- 7 Channel 3/4 Switch (☐ pg. 6)
- **8** Video Input Connector (pg. 29)
- 9 Video Output Connector (pg. 6)
- **1** ANT. IN Connector (pg. 6)



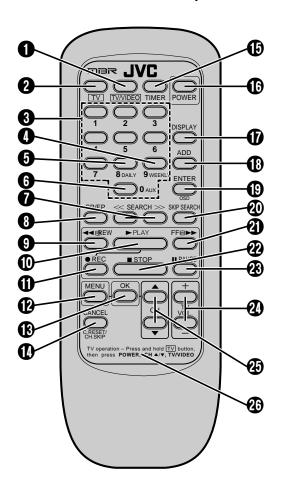


FRONT DISPLAY PANEL



- 1 Video Mode Indicator (pg. 7)
- 2 Instant Timer Recording Indicator (pg. 25)
- 3 Timer Mode Indicator (pg. 26)
- Clock Display (□ pg. 7)
- **⑤** Counter Display (□ pg. 21)
- **6** Multichannel TV Sound Indicators (☐ pg. 24)
- Recording Mode Indicator (pg. 15)
- 8 Play Mode Indicator (pg. 14)
- "Cassette Loaded" Mark
- Tape Speed Indicators (pg. 15)
- AM/PM Indicators (□ pg. 7)
- (Pannel Display ["AU" for AUX mode] (F pg. 30)
- Pause Mode Indicator (□ pg. 15)

REMOTE CONTROL (Provided)



- 1 TV/VIDEO Button (☐ pg. 7)
- 2 TV Operation Button (pg. 33)(Refer to below)
- 3 NUMBER Buttons (pg. 10)
- WEEKLY Timer Recording Button (□ pg. 26)
- **5** DAILY Timer Recording Button (pg. 26)
- **6** "AUX" Mode Select Button (☞ pg. 30)
- **7** Reverse/Forward SEARCH Buttons (☐ pg. 16)
- Recording Speed [SP/EP] Button (pg. 15)
- **9** Rewind [ŘEW] Button (☞ pg. 14)
- **1** PLAY Button (pg. 14)
- Record [REC] Button (pg. 15)
- **1** MENU Button (□ pg. 7)
- (B) OK Button (pg. 7)
- CANCEL Button (F pg. 27)
- Counter [C.] RESET (pg. 21)
- Channel [CH.] SKIP Button (pg. 13)
- **1** TIMER Button (□ pg. 26)
- ⑥ POWER ON/OFF Button (☞ pg. 7)
- **1** DISPLAY Button (🖙 pg. 21)
- **13** ADD Button (**□** pg. 13)
- (15) ENTER Button (127 pg. 15)
 - On-Screen Display [OSD] Button (F pg. 19)
- **②** SKIP SEARCH Button (□ pg. 20)
- **②** STOP Button (□ pg. 14)
- ② PAUSE Button (F) pg. 15) ② Volume [VOL] +/– Buttons (F) pg. 33)
- ② Channel [CH] ▲▼ Buttons (🖙 pg. 7)
- 1 Instructions for remote control of the following TV functions: POWER, CH ▲▼ and TV/VIDEO switching.





40 SPECIFICATIONS

GENERAL

Power requirement : AC 120 $V \sim$, 60 Hz

Power consumption : 21 W

Temperature

Operating $: 5^{\circ}\text{C to } 40^{\circ}\text{C } (41^{\circ}\text{F to } 104^{\circ}\text{F})$ Storage $: -20^{\circ}\text{C to } 60^{\circ}\text{C } (-4^{\circ}\text{F to } 140^{\circ}\text{F})$

Operating position : Horizontal only

Dimensions (W x H x D) : 360 x 94 x 276 mm

(14-3/16" x 3-3/4" x 10-7/8")

Weight : 3.4 kg (7.5 lbs)
Format : VHS NTSC standard

Maximum recording time

SP : 210 min. with ST-210 video

cassette

EP: 630 min. with ST-210 video

cassette

VIDEO/AUDIO

Signal system : NTSC-type color signal and

EIA monochrome signal, 525

lines/60 fields

Recording/

Playback system : DA-4 (Double Azimuth) head

helical scan system

Signal-to-noise ratio : 45 dB Horizontal resolution : 240 lines

Frequency range

Normal audio : 70 Hz to 10,000 Hz Hi-Fi audio : 20 Hz to 20,000 Hz Input/Output : RCA connectors (IN x 2,

OUT x 1)

TUNER

Tuning system

Channel coverage

VHF : Channels 2–13 UHF : Channels 14–69 CATV : 113 Channels

RF output : Channel 3 or 4 (switchable;

preset to Channel 3 when shipped) 75 ohms,

: Frequency-synthesized tuner

unbalanced

TIMER

Clock reference : Quartz

Program capacity : 1-year programmable timer/

8 programs

Memory backup time : Approx. 10 min.

ACCESSORIES

Provided accessories : RF cable (F-type),

Infrared remote control unit,

"AA" battery x 2

Specifications shown are for SP mode unless otherwise specified. E. & O.E. Design and specifications subject to change without notice.





HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-252-5722

Dear customer:

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-252-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

- JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road Fairfield, NJ 07004-2105 (201) 808-9279

5665 Corporate Avenue Cypress, CA 90630-0024 (714) 229-8011

230 Eliot Street

(508) 881-5923

Ashland, MA 01721-2377

1500 Lakes Parkway Lawrenceville, GA 30243-5357

(770) 339-2522

10700 Hammerly, Suite 110 Houston, TX 77043-2310

(713) 935-9331

14505 Commerce Way Miami Lakes, FL 33016-1512

(305) 362-6252

705 Enterprise Street Aurora, IL 60504-8149

(708) 851-7855

2969 Mapunapuna Place Honolulu, HI 96819-2040

(808) 833-5828

890 Dubuque Avenue

South San Francisco, CA 94080-1804

(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

> NATIONAL HEADQUARTERS JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF US JVC CORP. 107 Little Falls Road Fairfield, NJ 07004-2105

If you ship the product....

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer.

Or from the 48 Continental United States call toll free: 1-800-882-2345.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside.

Refer servicing to qualified service personnel.





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LIMITED WARRANTY

CONSUMER VIDEO 1-90

WARRANTY

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS 1 YR LABOR 90 DAYS

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 252-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

- 1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
- 2. Initial installation and installation and removal for repair;
- 3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
- 4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
- 5. Signal reception problems and failures due to line power surge;
- 6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
- 7. Accessories;
- 8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); from the date of purchase);

There are no other express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential dameges or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA DIVISION OF US JVC CORP.

41 Slater Drive Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use: Enter below the Model No. and Serial No. which is located eit reference.	her on the rear, bottom or side of the cabinet. Retain this information for future
Model No.:	Serial No.:
Purchase date:	Name of dealer:





